



Energy and Climate Change Task Force

Meeting #1

May 4, 2021

6:00 PM

Electronic Meeting Notice

Due to the COVID-19 Pandemic emergency, the May 4, 2021 meeting of the Energy and Climate Change Task Force is being held electronically pursuant to Virginia Code Section 2.2-3708.2(A)(3), the Continuity of Government ordinance adopted by the City Council on June 20, 2020 or Sections 4-0.00(g) in HB29 and HB30 to undertake essential business. All of the members of the Task Force and staff are participating from remote locations through a Zoom web meeting. This meeting is being held electronically, unless a determination is made that it is safe enough to be held in person in the City Council Chamber at 301 King Street, Alexandria, VA. Electronic access will be provided in either event. The meeting can be accessed by the public through a Zoom web meeting link. Participants can register at the City website to obtain the Zoom link. A video recording of this meeting will be posted to the City's website. Public comment will be received at the end of the meeting and will also be accepted afterwards through a public feedback form posted to the City's website. For accommodations for anyone with disabilities, please contact City staff.



Agenda

- Welcome and Introductions
- City Staff Presentations
 - Background Information
 - Workplans and Schedule
- Task Force Discussions
 - Schedule, Priorities
 - Equity, Economic Development, Community Engagement
- Public Comments
- Closing and Next Steps



Meeting Objectives

- Introduce ourselves to each another
- Establish a Task Force Charter
- Learn more about the City's climate action efforts
- Learn about how the City is partnering with others in the region to support updating the energy and climate action plan
- Hear about the Energy and Climate Change Action Plan's update process and schedule
- Discuss how equity and economic development are being taken into consideration
- And discuss the priorities Task Force members may have as the City's begins update of the Energy and Climate Change Action Plan.



City Staff

- Bill Eger, Energy Manager
- Ellen Eggerton, Sustainability Coordinator
- Jessica Lassetter, Senior Environmental Specialist



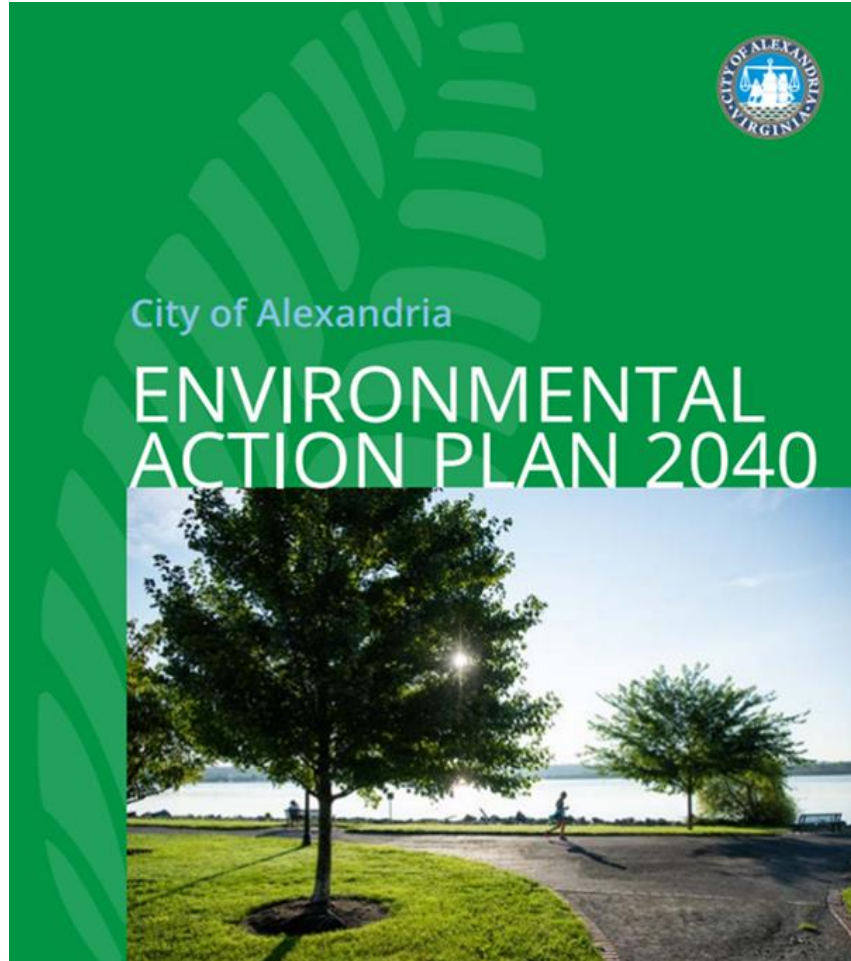
Task Force Members

- **Mary Harris**, Co-Chair, Clean energy and climate policy or technology
- **Marian Pegram**, Co-Chair, Diversity, racial and social equity, and inclusivity issues of diverse Alexandria populations
- **Javier Bastos**, Alexandria's business community and institutional organization interests
- **Leah Devendorf**, Alexandria youth interests with specific priority of Alexandria high school students
- **Fiona Herbold**, Alexandria youth interests with specific priority of Alexandria high school students
- **Praveen Kathpal**, At-large member of the Alexandria community
- **Alyssa Morin**, At-large member of the Alexandria community
- **Raquel Nicora**, Diversity, racial and social equity, and inclusivity issues of diverse Alexandria populations
- **Josh Sawislak**, Alexandria's business community or institutional organization interests
- **Marta Schantz**, Environmental Policy Commission Member
- **Rose Stephens-Booker**, Member reflecting climate change solutions to support the City's economic development goals
- **Stephen Walz**, Member reflecting environmental, clean energy, or climate change action advocacy organization or interest
- **Sangina Wright**, At-large member of the Alexandria community

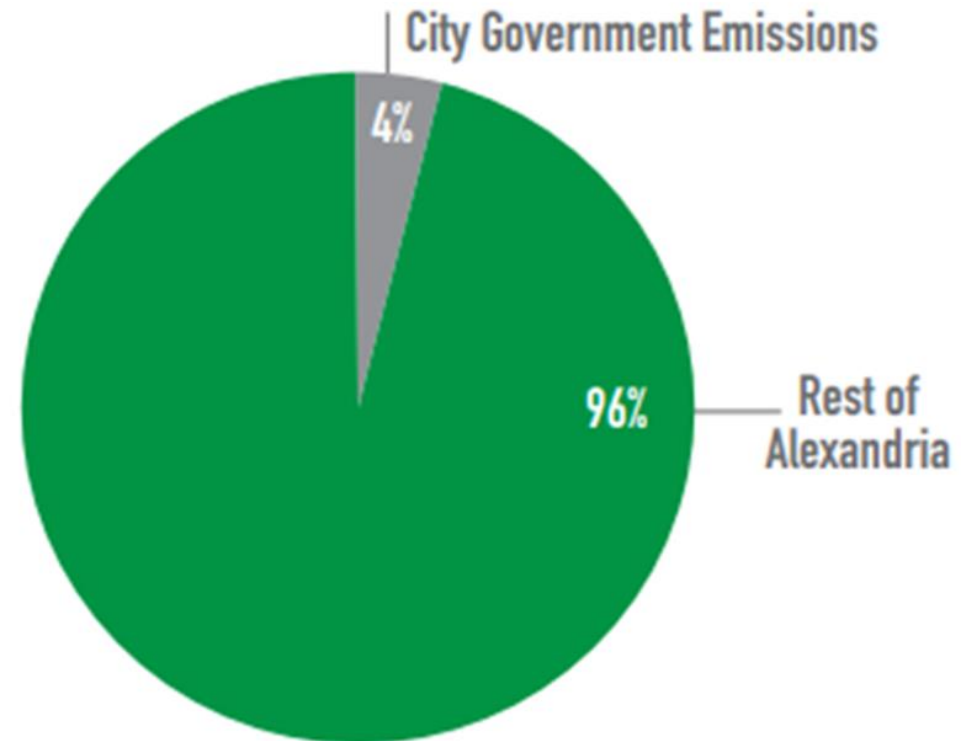




Eco-City and EAP 2040



Source of Emissions



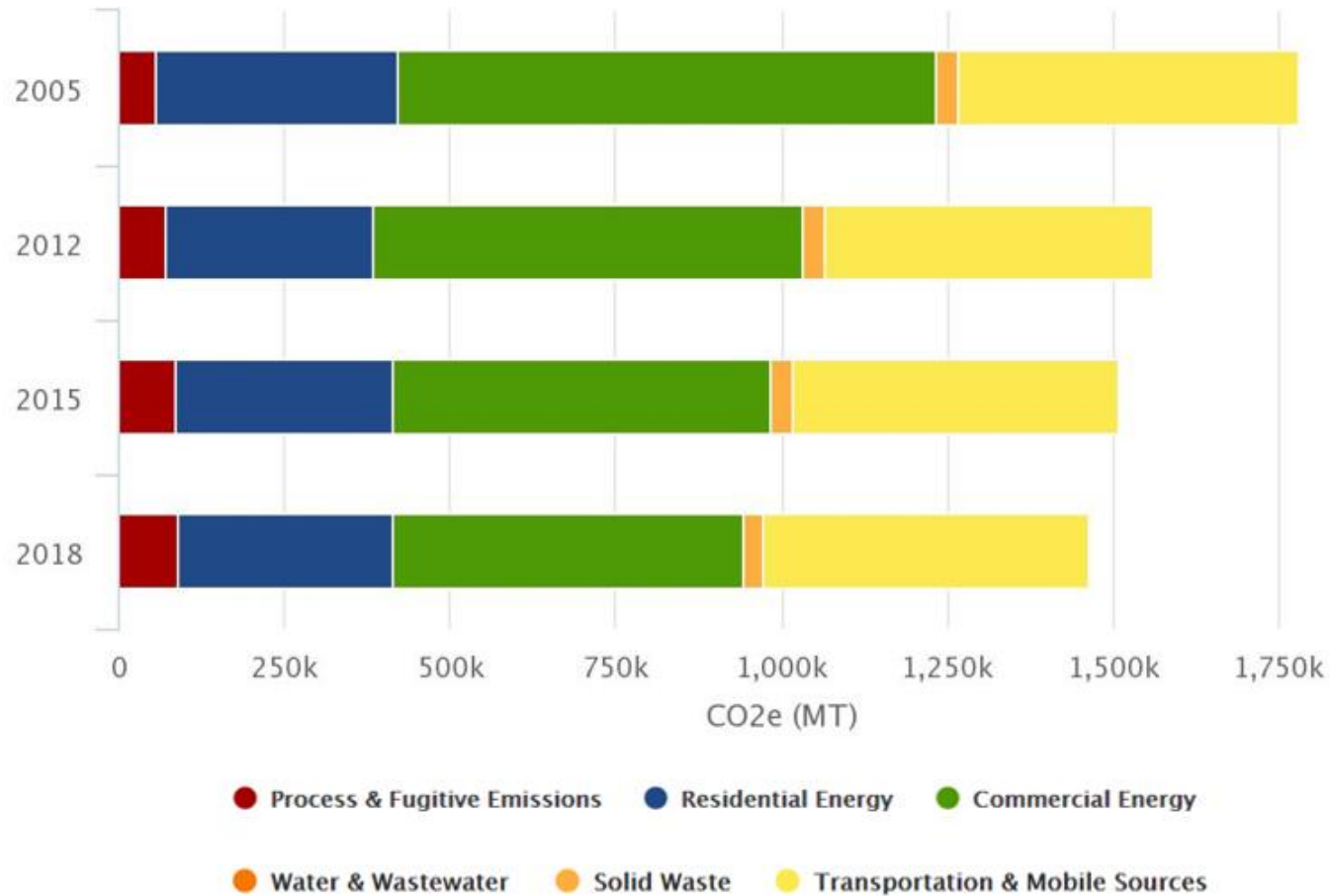
Overview: Timeline

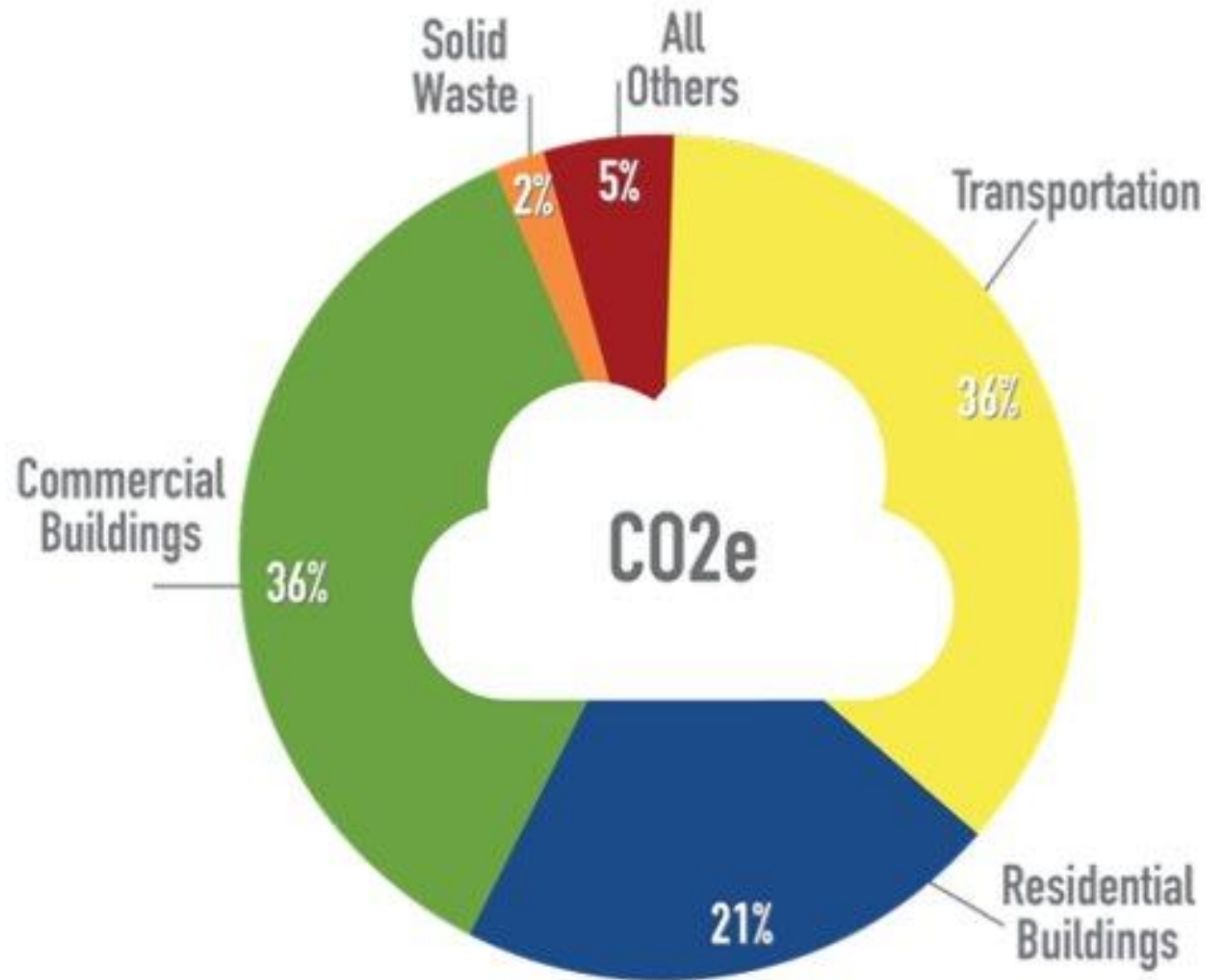
- 1970 Environmental Policy Commission
- 1998 Quality of Life events
- 2007 Eco-City Alexandria
- 2009 Environmental Action Plan 2030
- 2009 Green Building Policy
- 2011 Energy and Climate Change Action Plan
- 2012-GHG Inventories (2005 base)
- 2019 updated Environmental Action Plan 2040
- 2019 updated Green Building Policy
- 2021 ECCAP task force and update process

Metrics: 18% drop in GHG

GREENHOUSE GAS TRENDS CHART - CITY OF ALEXANDRIA

Alexandria greenhouse gas emissions decreased by 18% from 2005 to 2018.

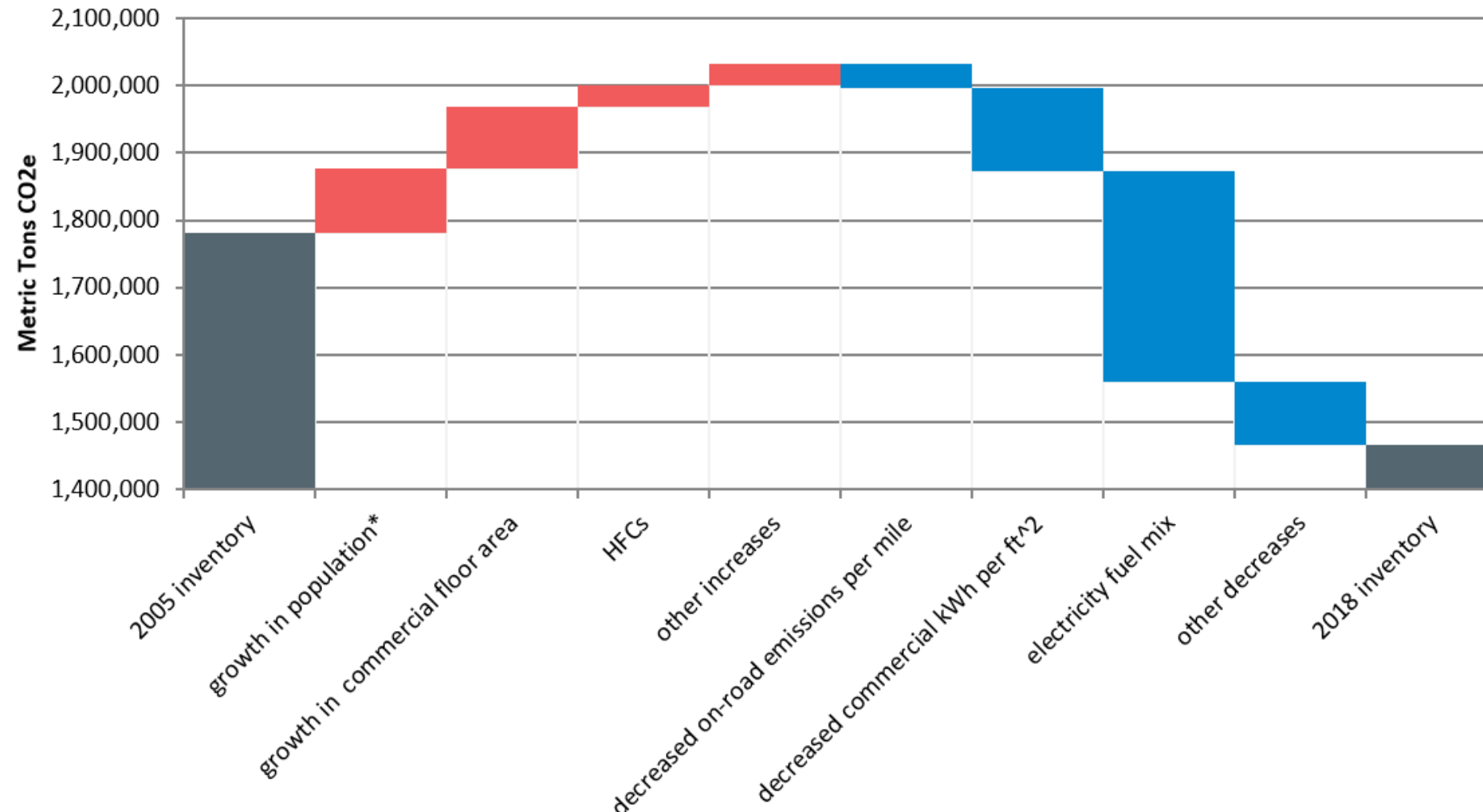




The contribution of City emissions from various sectors of the community show that the majority emissions are from the built environment, followed by transportation.

Metrics: GHG Drivers

Quick summary: Three largest increases and decreases



Metrics: Performance Dashboard



Inclusive



Safety



Economy



Transportation



Health



Children & Youth



Neighborhoods



Environment



Arts & Rec



Government



Search

Environment

Strategic plan indicators are highlighted

Acres of Open Space
The rate of open space per 1,000 residents

Chesapeake Bay Water Pollution
Chesapeake Bay water pollution reduction goal

City Energy Management
City energy use, management, and efficiency performance dashboard






























Diverted Waste
Percent of waste that is diverted through recycling, reuse, or composting

Environmental Action Plan (EAP)
Monitoring the performance of the EAP as part of EcoCity Alexandria

Greenhouse Gas Emissions
CO2 equivalent metric tons per capita

Missed Collections
Missed recycling, trash, & yard waste collections

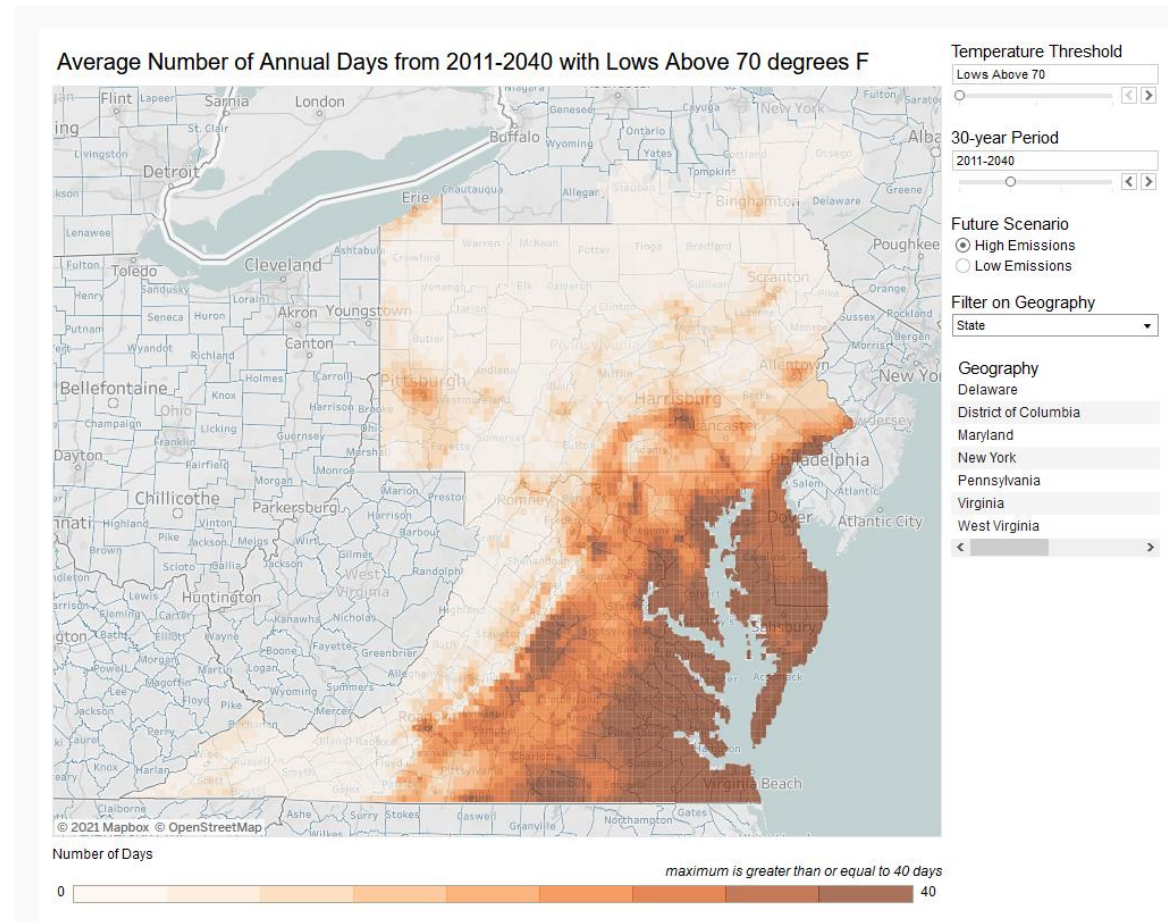
Tree Canopy
The percent of Alexandria land covered by tree canopy

2.2.6	Climate Action (CAP) Implementation	2020	2021	2022	2023	2024
	2. ENERGY					
	Goal - 100% renewable for applicable City facilities					By 2030 all electric government facilities offset 100%
2.1.1	Renewable 2.1.1 (Offset Electrical Use w RECs)		SHORT	FY2020	GS	achieved about 98% FY2020
2.1.2	Renewable 2.1.2 (Energy Supply Strategy)		SHORT	FY2021	GS	
2.1.3	Renewable 2.1.3 (Direct Power Purchase)		SHORT	FY2023	GS	
2.1.4	Renewable 2.1.4 (electrification plan)		MEDIUM	FY2024	GS	
2.1.5	Renewable 2.1.5 (80% direct offsets)		MEDIUM	FY2028	GS	
2.1.6	Renewable 2.1.6 (full electrification)		LONG	FY2040	GS	
2.1.7	Renewable 2.1.7 (100% direct offsets)		LONG	FY2035	GS	
	Target - improve City facility efficiency by 25%					Action 2.2.4 by 2027
2.2.1	Efficiency 2.2.1 (Facility Index)		SHORT	FY2023	GS	
2.2.2	Efficiency 2.2.2 (Electric Vehicle Program)		SHORT	FY2021	DASH,ACPS,TES	3/11 to date for DASH, 5 ACPS in 2020/21, TES 7 leafs/3 plugin
2.2.3a	Efficiency 2.2.3a (Building lighting Upgrades)		SHORT	FY2021	GS	~ 60% but not 75% by FY2021
2.2.3b	Efficiency 2.2.3b (Streetlighting Upgrades, 10.2)		SHORT	FY2023	TES	30% ~ 3,000 lights for FY2021
2.2.4	Efficiency 2.2.4(reduce energy 25%)		MEDIUM	FY2027	GS	
2.2.5	Efficiency 2.2.5(25% fleet electrification)		MEDIUM	FY2024	TES	
2.2.6	Efficiency 2.2.6(10% transit fleet electrification)		MEDIUM	FY2028	DASH	
2.2.7	Efficiency 2.2.7(reduce energy 50%)		LONG	FY2035	GS	
2.2.8	Efficiency 2.2.8(100% transit fleet electrification)		LONG	FY2040	TES	
	Target - GHG/person to 6:2030, 4:2040, 1-3:2050					9.5 per capita w 2018 GHG inventory
2.3.1	Community 2.3.1 (Regulatory Activities)		SHORT	FY2019	GS	continuing
2.3.2	Community 2.3.2 (CPACE)		SHORT	FY2020	GS	CPACE adopted - program plan development started
2.3.3	Community 2.3.3 (Electric Vehicle Charging)		SHORT	FY2020	GS	working draft under review
2.3.4	Community 2.3.4(GHG tracking model)		MEDIUM	FY2024	GS	
2.3.5	Community 2.3.5(robust efficiency programs)		LONG	FY2040	GS	
2.3.6	Community 2.3.6(Implement EV charging)		LONG	FY2029	GS	
	3. GREEN BUILDING					
	Target - Net Zero for Public Bldgs					no target date but update policy every 5 years
3.1.1	Building 3.1.1 (update green bldg policy)		SHORT	FY2019	PZ	completed
3.1.2	Building 3.1.2 (Sustainability in DSP/DSUP)		SHORT	FY2020	PZ	updated for 2020 and most years annually
3.1.3	Building 3.1.3 (Development checklist)		SHORT	FY2023	PZ	updated review checklists
3.1.4	Building 3.1.4 (track compliance)		SHORT	FY2020	PZ	
3.1.5	Building 3.1.5 (update development conditions)		SHORT	FY2023	PZ	

2020 Achievements

1. LED Lighting (streetlights and bldgs.)
2. CPACE
3. Transportation (streets, transit, EVs)
4. Green Buildings and Planning
5. Water Resources
6. Resource Recovery (reduce & recycling)
7. Virtual and Paperless Options
8. Legislation

Leveraging Regional Climate Action Efforts

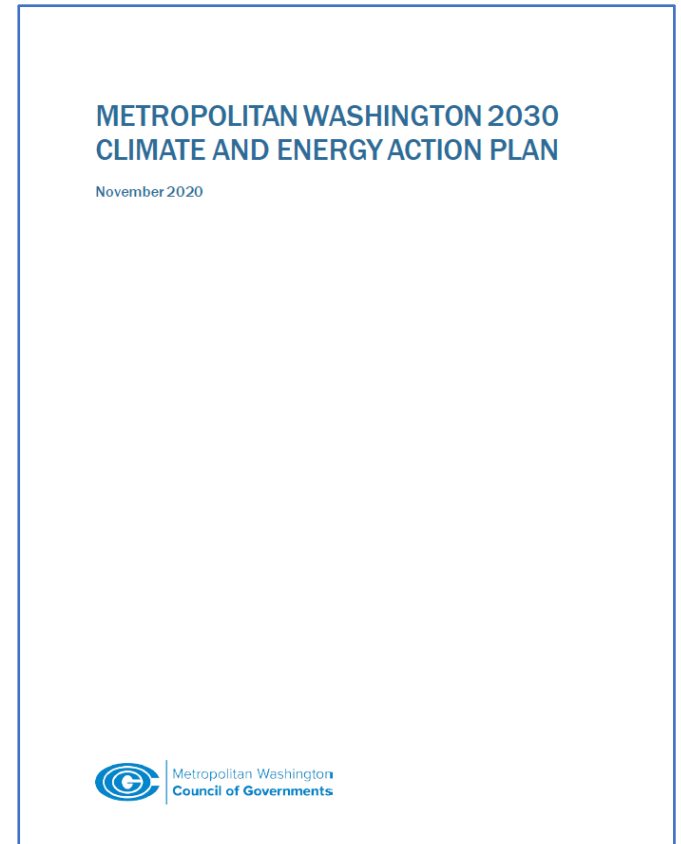


<https://www.novaregion.org/1481/ClimateResiliency-Dashboards>



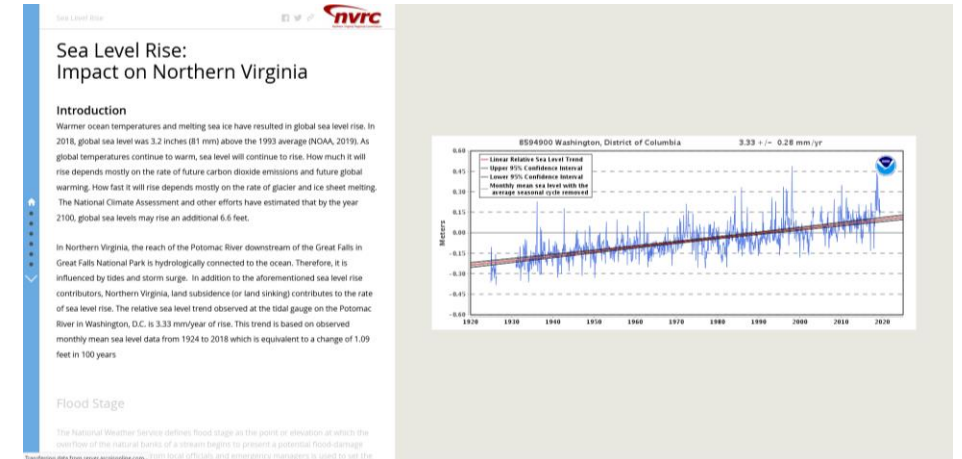
Leveraging Regional Climate Action Efforts

- Metropolitan Washington Council of Governments (MWCOCG)
 - Greenhouse Gas Emissions (GHG) Analysis
 - Regional Business-as-usual GHG projections (to 2030)
 - Unified GHG reduction targets
 - Identification and evaluation of high-impact GHG reduction actions across buildings, transportation, waste reduction, open space and tree canopy, regional energy systems
 - Regional vulnerability screening and actions, and resilience strategies
 - DMV Climate Partners
- Transportation Planning Board (TPB)
 - 2021 Climate Change Mitigation Study (underway)
 - Regional Transportation Resiliency Study (launching)



Leveraging Regional Climate Action Efforts

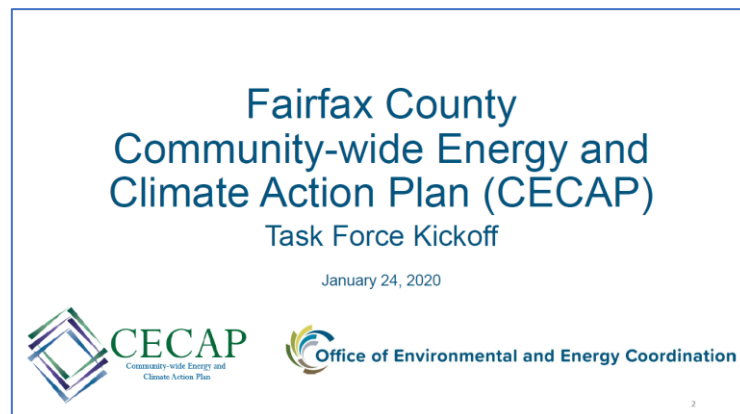
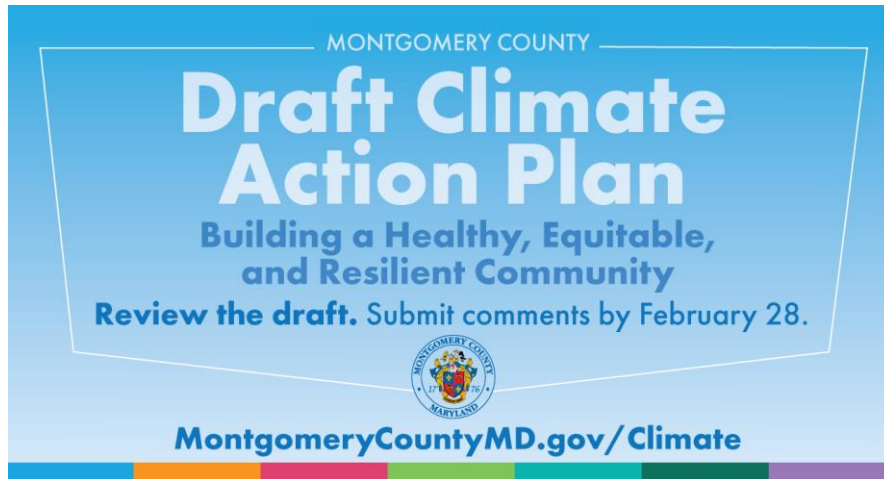
- Northern Virginia Regional Commission
 - Northern Virginia Hazard Mitigation Plan
 - Climate Resilience Dashboard (GIS and vulnerability modeling)
 - Resilient Critical Infrastructure: A Roadmap for Northern Virginia
 - Northern Virginia Resiliency Planning Work Group
- WMATA Resiliency Plan Development



Source: <https://www.novaregion.org/1354/Resiliency-Planning>



Leveraging Regional Climate Action Efforts



Leveraging Regional Climate Action Efforts

- Leveraging information, processes, and actions from across the Commonwealth of Virginia
 - Charlottesville
 - Richmond
 - Blacksburg
 - Roanoke
 - Norfolk



ICLEI Integrated Climate Action Planning Cohort



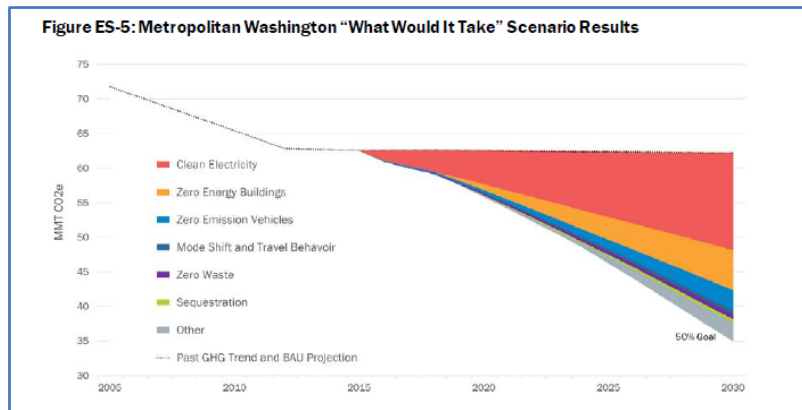
ICLEI Integrated Climate Action Planning Cohort

- Structured technical assistance program to guide local governments through the development steps for:
 - Climate vulnerability assessment
 - GHG reduction targets
 - Climate adaptation goals
 - Climate adaptation and mitigation strategies
 - Stakeholder engagement
 - Communication strategies
 - Climate Action Plan document development for internal & external audiences

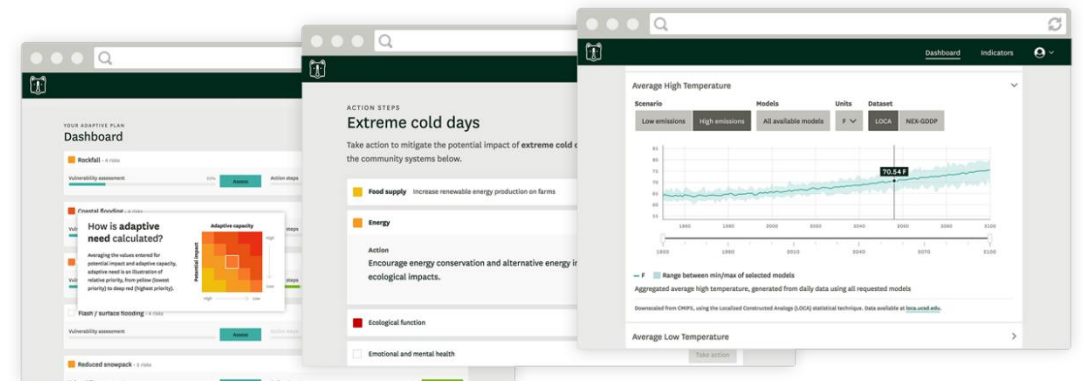


ICLEI Integrated Climate Action Planning Cohort

- One of twenty cities/counties
- Focus on low-emission, resilient, and equity/people-centered pathways to support local climate action efforts
- Technical assistance support



Note: Example reduction scenario using ICLEI methodologies and tools. Example is for Metropolitan Washington as featured in 2030 Metropolitan Washington Regional Climate and Energy Plan.



Source: Temperate.io



Energy and Climate Change Action Plan

- Topics / Focus
- Principles
- Task Force and Community Engagement
- Schedule

Energy and Climate Change Action Plan Topics

- Mitigation Actions (reducing greenhouse gas emissions)
- Vulnerabilities & community impacts
 - Heat extremes, heat island impacts
 - Storm intensity, riverine, coastal, and inland flooding
- Adaptation and resiliency (public infrastructure)
- Equity and climate justice (ALL Alexandria)
- Economic development opportunities
- Governance and community education
- Budgeting and implementation
- State and federal policy advocacy



ECCAP Principles

- Build upon EAP2040, Metropolitan Washington Regional Climate and Energy Plan, existing City plans, and regional efforts
 - Greenhouse gas emissions analysis, business-as-usual, targets, high-impact actions, vulnerability assessments, hazard mitigation
 - Synthesize and contextualize for climate action
- Focus on gaps (ex. EAP2040 actions) & value-added analyses
- Enhance understanding vulnerabilities, community impacts, adaptive capacity
- Enhance understanding of equity, public health, economic opportunities, and other co-benefits
- Provide supporting and contextualized information for public infrastructure adaptation and resiliency
- Focus on specific and implementable actions



Energy and Climate Change Task Force

- Meeting #1 (May) – Introduction & Background, Establishing Priorities
- Meeting #2 (July) – Mitigation 1
- Meeting #3 (Sep-Oct) – Mitigation 2
- Meeting #4 (Nov-Dec) – Vulnerability & Adaptation
- Meeting #5 (Jan-Feb) – Priorities & Recommendations



Community Engagement

- Open House/Education Session #1 (Oct) – Greenhouse Gas Emissions and Mitigation Actions
- Open House/Education Session #2 (Dec) – Vulnerabilities & Adaptation
- ECCAP Public Comments / Feedback (Feb-Mar)



Schedule Overview

Fiscal Year	FY2021				FY2022									
Calendar Year	CY2021									CY2022				
	A	M	J	J	A	S	O	N	D	Ja	F	M	A	M
ECCAP Development														Adopt
ICLEI ICAP Cohort										Ongoing Technical Assistance				
Consulting Support														
Task Force Meetings														
Community Engagement														



ALL Alexandria – Racial and Social Equity

- **ALL Alexandria Resolution 2794 (January 23, 2021)**

- Ensure that race and social equity is incorporated and centered in all planning
- Implement and sustain structures and systems to advance race and social equity
- Align and implement policy efforts designed to advance race and social equity goals
- Ensure accountability mechanisms related to the progression and transparency of work to advance race and social equity



<https://www.alexandriava.gov/manager/default.aspx?id=120013>

Leveraging Climate Action for Economic Development and Opportunities

- What are ways for Alexandria to leverage climate action to support economic development and opportunities?
- Who are partners the City and Alexandria Economic Development Partnership (AEDP) may consider to support climate action as part of Alexandria's economic development efforts?



Community Engagement

- As City staff look forward to engaging the Alexandria community on the Energy and Climate Action Plan's update over the next year, we are seeking partnerships and ideas on ways to engage with the community. City staff is seeking assistance from this Task Force to help in this effort.

- 1. What partnerships might City staff consider to engage members of our community who may not be involved in the City's climate action planning or program efforts?**
- 2. What are strategies you have seen or would find useful to communicate complex climate action information in order to better engage with the community?**



Public Comments

- Raise Hand in Zoom to indicate you wish to make a Public Comment
- City staff will call your name and unmute you
- Please limit your comments to 2 minutes
- Please consider providing your Public comments in the Zoom chat
- A Public feedback form will be posted to the City website to collect public comments



Sunshine Law

- two members of the task force can meet but not three without a public meeting
 - co-chairs allowed to meet as they are two people
- "meetings" means the meetings including work sessions, when sitting physically, or through electronic communication means pursuant to § [2.2-3708.2](#), as a body or entity, or as an informal assemblage of (i) as many as **three members of the constituent membership**



Summary and Next Steps

